

# Alexey Prudnikov

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## Personal Information

Date of Birth 16.02.1984 (age 29)  
Location Moscow, Russia

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## Education

2007–2010 **Postgraduate**, *National Research Nuclear University «MEPhI»*.  
«**Applied Mathematics and Computer Science**»  
2001–2007 **Graduate**, *Moscow Engineering Physics Institute (MEPhI)*.  
**Degree in «Applied Mathematics and Computer Science»**

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## Work Experience

09.2008–  
present **Software Developer**, «*Open Information Technologies*», LLC, Moscow, Russia.  
Information technologies: software developing and integration  
Responsibilities:

- Design and development information system «*Social Insurance*», which is used by Fund of Social Insurance (FSI) — big government structure of Russian Federation, as system architect and co-project manager.
- Design, development and highload optimization *FSI internet portal* as system architect of full-text search and lead OLAP-developer.
- Design, development and highload optimization *FSI web-service* for submission financial statements with digital signatures as system architect.
- Design and development framework, which is used for interaction between SAP ERP and converter of financial reports from Russian national standards to IFRS and GAAP, as lead developer.
- Design and development *electronic payment processing system* as system architect.

09.2007–  
07.2013 **Research/Teaching Associate**, *National Research Nuclear University «MEPhI»*,  
«*Information Systems and Technology*» department, Moscow, Russia.  
Science and education  
Responsibilities:

- Teaching experience:
  - «Algorithms and Data Structures» (lections and labs);
  - «Programming Languages and Compilers» (lections and labs);
  - «Optimization Methods» (lections and labs);
  - «Numerical Computing» (labs);
  - «Game Theory and Operation Research» (lections).
- Supervising course work and assignments of undergraduate students.
- Participation in department's research work.
- Create and deliver tutorial and lab session material for undergraduate students.

10.2005–  
09.2008 **Software Developer**, «*New information systems and technologies*», JSC, Moscow, Russia.  
Information technologies: software developing and integration  
Responsibilities:

- Design and development information system «*Social Insurance*», which is used by Fund of Social Insurance (FSI) — big government structure of Russian Federation, as lead developer.
- Design and development *FSI internet portal* as lead OLAP-developer and software architect of application for delivery financial statements from insurants to FSI.

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## Computer Skills

OS Linux (RedHat-based), Windows, FreeBSD  
Languages C, Java, Delphi, PHP, SQL

DBMS	Oracle, MySQL, PostgreSQL, HyTech, DB2
Version Control	Git, Subversion
Project Management	Redmine, MediaWiki
Numerical Computing	Octave, Scilab
Document Preparation	LaTeX

## Personal Skills

- Full cycle software development experience — business analysis, design, development, deploy and user training.
- Design software with systematic approach.
- Use free software to minimize total cost of development.
- Thoroughness and responsibility with documents, records and acts.
- Business relations and negotiations with customers (including government and military).
- Preparation of reports, speeches and presentations to an audience, participation in conferences and seminars as a speaker.
- Excellent oral and written Russian language.
- Continuous professional development, quick learning.
- Orderliness, punctuality.

## Trainings and Certifications

- 2013 **Training**, «Discrete Optimization», University of Melbourne, [MOOC](#).
- 2013 **Training**, RH254 «Red Hat System Administration III», Red Hat Certified Training Partner «Inventa».
- 2013 **Training**, «Hardware/Software Interface», University of Washington, [MOOC](#).
- 2013 **Training**, «Pattern-Oriented Software Architectures for Concurrent and Networked Software», Vanderbilt University, [MOOC](#).
- 2013 **Training**, «Linear and Discrete Optimization», École Polytechnique Fédérale de Lausanne, [MOOC](#).
- 2013 **Certification**, Red Hat EX200, «Red Hat Certified System Administrator».
- 2013 **Training**, RH134 «Red Hat System Administration II», Red Hat Certified Training Partner «Inventa».
- 2013 **Training**, RH124 «Red Hat System Administration I», Red Hat Certified Training Partner «Inventa».
- 2013 **Training**, «Game Theory», Stanford University & University of British Columbia, [MOOC](#).
- 2013 **Training**, «Algorithms: Design and Analysis, Part II», Stanford University, [MOOC](#).
- 2012 **Certification**, IBM 000-730, «IBM Certified Database Associate — DB2 9 Fundamentals».
- 2012 **Certification**, IBM 000-302, «IBM Certified Academic Associate - DB2 9 Database and Application Fundamentals».
- 2012 **Training**, «Quantum Mechanics and Quantum Computation», University of California, Berkeley, [MOOC](#).
- 2012 **Training**, «Machine Learning», Stanford University, [MOOC](#).
- 2012 **Training**, «Automata», Stanford University, [MOOC](#).
- 2012 **Training**, «Algorithms: Design and Analysis, Part I», Stanford University, [MOOC](#).
- 2010 **Training**, «Open Information Systems Security», NRNU MEPhI.

## Languages

Russian	Native speaker
English	Reading technical and mathematical papers and books — free, speaking and writing — Intermediate

## Publications and Presentations

A. Prudnikov. Approaches to the protection of payment card fraud on the internet. In *Science session NRNU MEPhI-2013. Abstracts in three volumes*, volume 2, page 221, M., 2013. NRNU MEPhI.

Yu. Grankin, D. Kovalev, and A. Prudnikov. Framework «sunflower» for rapid java ee-applications development. In *Science session NRNU MEPhI-2012. Abstracts in three volumes*, volume 2, page 241, M., 2012. NRNU MEPhI.

A. Prudnikov. Full-text search integration to the hytech dbms. In *Science session NRNU MEPhI-2010. XIII conference «Young people and science»: abstracts in three volumes*, volume 2, pages 161–162, M., 2010. NRNU MEPhI.

A. Prudnikov and M. Markovskiy. Steganalysis methods of digital images. In *Science session NRNU MEPhI-2009: proceedings in six volumes*, volume V, pages 67–70, M., 2009. NRNU MEPhI.

A. Prudnikov. Analysis for the presence of hiding information in databases. In *Information systems and technologies 2009. II scientific and technical conference of students, postgraduates and young professionals: abstracts*, pages 162–163, Obninsk, 2009. IATE.

A. Prudnikov. Problems and practice in digital steganography. In *Science session MEPhI-2008. XI conference «Young people and science»: abstracts in two volumes*, volume 1, pages 72–73, M., 2008. MEPhI.

A. Prudnikov. Methods of text steganography. In *Science session MEPhI-2008. XI conference «Young people and science»: abstracts in two volumes*, volume 1, pages 74–75, M., 2008. MEPhI.

A. Prudnikov. Automation of interaction of insurers and fund of social insurance of the russian federation regarding delivery of the accounting reports. In *Science session MEPhI-2007. Abstracts in seventeen volumes*, volume 16. Conference «Young people and science», pages 105–106, M., 2007. MEPhI.